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Customer No. 20350
TOWNSEND and TOWNSEND and CREW LLP
Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(415) 576-0200

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Sir:
Transmitted herewith for filing under 37 CFR 1.53(b) is the
☒ patent application of
☐ continuation patent application of
☐ divisional patent application of
☐ continuation-in-part patent application of

Assistant Commissioner for Patents
Washington, D.C. 20231

By: Janet Byrne

Inventor(s)/Applicant Identifier: Steven Yatchak et al.

For: SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION AND USE

☐ This application claims priority from each of the following Application Nos./filing dates:

the disclosure(s) of which is (are) incorporated by reference.
☐ Please amend this application by adding the following before the first sentence: "This application is a ☐ continuation ☐ continuation-in-part of and claims the benefit of U.S. Provisional Application No. 60/_____, filed _____, the disclosure of which is incorporated by reference."

Enclosed are:
☒ 11 page(s) of specification
☒ 4 page(s) of claims
☒ 1 page of Abstract
☒ 7 sheet(s) of ☐ formal ☒ informal drawing(s).
☒ An assignment of the invention to Brass Smith, Inc.
☒ A ☒ signed ☐ unsigned Declaration.
☒ A Power of Attorney by Assignee with Certificate Under 37 CFR Section 3.73(b).
☒ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27 ☒ is enclosed ☐ was filed in the prior application and small entity status is still proper and desired.

	(Col. 1)	(Col. 2)
FOR:	NO. FILED	NO. EXTRA
BASIC FEE		
TOTAL CLAIMS	24 - 20	= *4
INDEP. CLAIMS	3 - 3	= *0
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED		

* If the difference in Col. 1 is less than 0, enter "0" in Col. 2.

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RATE	FEE		RATE	FEE
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x \$9.00 =	\$36.00	OR	x \$18.00 =	
x \$39.00 =	\$0.00	OR	x \$78.00 =	
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Respectfully submitted,
TOWNSEND and TOWNSEND and CREW LLP

Telephone: (303) 571-4000
Facsimile: (303) 571-4321

Darin J. Gibby
Reg No.: 38,464
Attorneys for Applicant

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(c)) - SMALL BUSINESS CONCERN

Applicant or Patentee: Steven Yatchak and Chuck DeWitt
 Application or Patent No.: _____
 Filed or Issued: Herewith
 Title: SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION AND USE

I hereby declare that I am:

- ☐ the owner of the small business concern identified below:
☒ an official of the small business concern empowered to act on behalf of the concern identified below.

Name of Small Business Concern: Brass Smith, Inc.
 Address of Small Business Concern: 3880 Holly Street
Denver, CO 80207

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION AND USE by inventor(s) Steven Yatchak and Chuck DeWitt described in:

- ☒ the specification filed herewith;
☐ Application No. _____, filed _____;
☐ Patent No. _____, issued _____.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

Name: _____
 Address: _____
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 Address: _____
☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing: Chuck DeWitt
 Title of Person if Other than Owner: President
 Address of Person Signing: 3880 Holly Street
Denver, CO 80207

Signature Chuck DeWitt Date 5/1/00

PATENT APPLICATION

**SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION
AND USE**

Inventor(s):

Steven Yatchak, a citizen of the United States, residing at
511 Zorich Road, Wakefield, Michigan 49968

Chuck DeWitt, a citizen of the United States, residing at
13151 Callae Drive, Conifer, Colorado 80433

Assignee:

Brass Smith Inc.
3880 Holly Street
Denver, Colorado 80207

Entity: Small

003630-01035560

SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION AND USE

BACKGROUND OF THE INVENTION

5 The invention relates generally to the field of food protection, and in particular to the use of sneeze guards to protect displayed food. More specifically, the invention relates to sneeze guards having various adjustable features to make the sneeze guards highly versatile. Some of the features of the sneeze guards may also find use with non-food applications as well.

10 The display of food items is important to many industries. For example, prepared food is often displayed in grocery stores, restaurants, cafeterias, bakery shops, and the like. When openly displaying food, the chances of having the food become contaminated are increased, especially when potential customers stand over the displayed food when inspecting the food.

15 As a result, various health and safety codes have been implemented to regulate the display of food. Such codes have promoted the development of various sneeze guards. For example, some sneeze guards include a frame holding one or more clear panels that is placed between the customer and the food. In some case, the customer may be provided access to the food by reaching beneath the panel.

20 Sneeze guards may be used in a variety of settings where food is displayed. For example, sneeze guards may be used on food counters, buffets, smorgasbords, and the like. Because such a wide variety of settings exist, a versatile sneeze guard would be useful. Hence, the invention as related to sneeze guards that are adjustable and versatile to permit them to be used in a wide variety of applications,
25 including applications outside of the food display arena.

SUMMARY OF THE INVENTION

30 The invention provides exemplary sneeze guards and methods for their construction and use. Advantageously, some of the features of the sneeze guards may be used for other applications. In one embodiment, a sneeze guard comprises at least one post, and a bracket assembly that is coupled to the post in a manner such that the bracket assembly may move relative to the post. Further, the bracket assembly includes a locking mechanism that may be operated to lock the bracket assembly to the post at a certain

location. In this way, the bracket assembly may be moved to a desired location on the post, and the locking mechanism operated to secure the bracket assembly to the post. The sneeze guard further includes a panel that is coupled to the bracket assembly. With such configuration, the position of the panel may be adjusted by adjusting the location of the bracket assembly on the post. For example, if the post is vertically oriented, the height of the panel may be adjusted using the bracket assembly.

In one particular aspect, the bracket assembly comprises a housing that is receivable about the post, and an arm that is pivotally coupled to the housing. Further, the panel is coupled to the arm. In another aspect, the locking mechanism comprises an insert that is disposed within the housing, a locking bar that is positioned between the housing and the insert, and an actuator to force the locking bar against the insert to cause the insert to constrict about the post. By utilizing the insert, the housing may be secured to the post without marring, disfiguring, defacing, or producing marks, indentations, scratches, or the like, on the post. In this way, the post may be constructed of a wide variety of materials and still be used in combination with a locking mechanism, without the concern for scratching or marking the post.

In one particular aspect, the post comprises an elongate cylindrical body, and the housing includes a cylindrical section. With such a configuration, the insert comprises a tubular sleeve having an elongate slot. In this way, when the locking bar is forced against the sleeve, the slot begins to close to permit the sleeve to constrict about the post. In still another aspect, the actuator comprises a screw that extends through a threaded opening in the housing so as to be in contact with the locking bar. In this way, the screw may be turned to force the locking bar against the sleeve. Due to the cylindrical section of housing, the elongate slot of the sleeve begins to close as the sleeve constricts about the post.

In another particular aspect, the housing includes a plurality of teeth to mesh with a corresponding plurality of teeth on the arm. A screw is provided to pivotally couple the arm to the housing. In this way, the position of the arm relative to the housing may be adjusted by loosening the screw and turning the arm relative to the housing to the desired orientation. The screw is then tightened to secure the arm to the housing, with the meshing teeth assisting in preventing rotation of the arm relative to the housing. With such a configuration, the rotational orientation of the panel relative to the post may be easily adjusted.

In still another aspect, the arm includes a coupling mechanism to couple the panel to the arm. Conveniently coupling mechanism may include a cap that is insertable into an aperture of the arm. A screw is also provided to secure the cap to the housing. For example, the cap may be inserted into one end of the aperture while the screw is inserted through the other end of the aperture to hold the cap within the aperture. The panel is then held between the cap and the arm. Optionally, the aperture and the cap may be keyed to prevent rotation of the cap relative to the arm while the screw is being tightened. Such a configuration is advantageous in that the panel may be coupled to the arm by inserting the cap through a hole in the panel to provide a firm grip without the use of silicon or other seals. In this way, the sneeze guard may be easily assembled and disassembled down when needed, e.g. for storage, cleaning, and the like.

Conveniently, the post may include a threaded end to permit the post to be inserted into a permanent mount, such as within a countertop. Alternatively, the post may be coupled to a portable base. In one aspect, one or more stabilizers are coupled to the base. In still another aspect, the base may include a plurality of holes that are sized to receive the post. In this way, the post may be inserted into any one of the holes to adjust the depth at which the panel is positioned. Conveniently, one of more plugs may be provided and inserted into the unused holes.

In still another aspect, the sneeze guard may include a second post and a second bracket assembly that is coupled to the second post. In this way, the panel may be secured to both the first and second bracket assembly and held by the pair of posts. In one alternative configuration, two or more bracket assemblies may be coupled to the same post. In this way, two or more panels may be coupled to a single post to permit the sneeze guard to be arranged in a variety of configurations. For example, multiple panels may be arranged vertically and in the same plane to form a wall of panels. As another alternative, the panels may be oriented horizontally and in separate planes to form a series of shelves. In still another configuration, one panel may be vertically oriented while the other panel is horizontally oriented to form a panel and shelf arrangement. In another configuration, the post may be mounted to a variety of surfaces, including horizontal counters, vertical walls, ceilings, and the like.

The invention further provides an exemplary method for protecting displayed food items. The method may conveniently utilize a sneeze guard that is constructed using any of the features previously described. To protect the food, the sneeze guard is positioned such that the panel is placed between the displayed food and a

viewing location where individuals may inspect the food. To properly orient the panel, the locking mechanism is unlocked and the bracket assembly is moved along the post to adjust the height of the panel relative to the food (assuming that the post is vertically positioned). Once the proper height is achieved, the actuator may be operated to constrict the insert about the post in a non-marking manner. The arm may also be rotated relative to the housing to adjust the angle of the panel relative to the post. This may be accomplished, for example, by loosening the screw, disengaging the teeth of the arm in the housing and rotating the arm to the desired position. The screw is then tightened, with the teeth interlocking to prevent rotation of the arm relative to the panel. If the panel is to be removed and/or replaced, the screw on the arm may simply be unscrewed and the cap removed to permit the panel to be removed from the arm.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a front prospective view of one embodiment of a sneeze guard according to the invention.

Fig. 2 is a more detailed view of a bracket assembly of the sneeze guard of Fig. 1.

Fig. 3 is a rear prospective view of the bracket assembly of Fig. 2.

Fig. 4 is an exploded view of a base of the sneeze guard of Fig. 1 illustrating one way to couple the base to a mounting surface according to the invention.

Fig. 5 illustrates an alternative base to which a post of the sneeze guard of Fig. 1 may be coupled.

Fig. 6 illustrates another alternative base to which a post of the sneeze guard of Fig. 1 may be coupled.

Fig. 7 is a right side view of an insert of the bracket assembly of Fig. 2.

Fig. 8 is a front view of the insert of Fig. 7.

Fig. 9 is a cross sectional side view of the insert of Fig. 8 taken along lines 9-9.

Fig. 10 is a top view of the insert of Fig. 7.

Fig. 11 is a bottom view of the insert of Fig. 7.

Fig. 12 is a left side view of the insert of Fig. 7.

Fig. 13 is a cross sectional top view of the insert of Fig. 12 taken along lines 13-13.

Fig. 14 is a side view of a housing of the bracket assembly of Fig. 2.

Fig. 15 is a front view of the housing of Fig. 14.

Fig. 15A is a cross sectional view of the housing of Fig. 15 taken along lines A-A.

Fig. 15B is a cross sectional view of a tooth of the housing of Fig. 15 taken along lines B-B.

Fig. 16 is a detailed view of a plurality of teeth on the housing of Fig. 15.

Fig. 17 is a top view of the housing of Fig. 14 and also showing a locking bar disposed within the housing.

Fig. 17A is a cross sectional side view of the housing of Fig. 17 taken along lines A-A.

Fig. 17B is a cross section side view of the housing of Fig. 17 taken along lines B-B.

Fig. 18 is a side view of the locking bar of Fig. 17.

Fig. 19 is an end view of the locking bar of Fig. 17.

Fig. 20 is a top view of an arm of the bracket assembly of Fig. 2.

Fig. 20A is a cross sectional side view of the arm of Fig. 20 taken along lines A-A.

Fig. 20B is a cross sectional view of the arm of Fig. 20 taken along lines B-B.

Fig. 21 is a side view of the arm of Fig. 20.

Fig. 21 is a cross sectional view of the arm of Fig. 21 taken along lines A-A.

Fig. 22 is an end view of the arm of Fig. 20.

Fig. 23 is a detailed view of a plurality of teeth of the arm of Fig. 21.

Fig. 24 is a side view of the sneeze guard of Fig. 1 when mounted to a wall according to the invention.

Fig. 25 illustrates the sneeze guard of Fig. 1 when mounted to a ceiling according to the invention.

Fig. 25 illustrates an alternative embodiment of a sneeze guard having a post to which a pair of panels are coupled.

Fig. 26 illustrate still another alternative embodiment of a sneeze guard according to the invention.

Fig. 27 is a side view of yet another embodiment of a sneeze guard having a pair of panels that are arranged as shelves according to the invention.

Fig. 28 illustrates the sneeze guard of Fig. 27 with one of the panels being horizontally oriented and the panel being vertically oriented.

Fig. 29 illustrates the sneeze guard of Fig. 28 with both of the panels being vertically oriented.

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DESCRIPTION OF THE SPECIFIC EMBODIMENTS

The invention provides a variety of sneeze guards having various features that permit the sneeze guards to be used in a wide variety of settings. For example, the sneeze guards of the invention may be provided with various adjustable features to permit a single sneeze guard to be used in a variety of circumstances. Such adjustable features may include the ability to adjust the height, orientation, and/or depth of one or more sneeze guard panels. Another feature of the sneeze guards is that they may be configured to be either portable or secured to a certain location. Further, the sneeze guards are simple in design, thereby making it easy to relocate or to securely couple the sneeze guards to a surface. The simple design also lends itself to easy assembly and disassembly and facilitates cleaning of the sneeze guard.

Another feature of the sneeze guards is that they may be constructed to be easily integrated with other components. For example, a sneeze guard may be modified to include one or more additional sneeze guard panels. The sneeze guards may also be linked together to form multiple sneeze guards. A variety of bases may be provided to facilitate positioning of the sneeze guard panels at certain desired locations. The bases may also be employed to facilitate attachment of the sneeze guards to various mounting surfaces, such as counters, walls, ceilings, and the like. One particular advantage of utilizing multiple sneeze guard panels that are each adjustable is that a variety of configurations may be produced using the sneeze guard panels. For example, the sneeze guards may be provided with multiple walls, shelves, or combinations of walls and shelves by simply rearranging the various sneeze guard panels.

Various features of the sneeze guards may find use with other applications as well. For example, the sneeze guards may include a non-marking mounting device to permit a housing to be locked to a post without marking the post. Such a mounting system may find particular use in a wide variety of mounting applications where a mark, scratch, dent, or the like, on the mounting surface would be undesirable. For example, many mounting surfaces are constructed of materials that may easily scratch or dent with

traditional mounting techniques. The mounting devices of the invention may be used with such surfaces without marking or otherwise disfiguring the mounting surface.

Another versatile feature of the sneeze guards is the ability to couple a panel to the arm. By utilizing a cap that is secured to a housing, the panel may be sandwiched between the cap and the housing to securely hold the panel. In this way, the panel is not required to be inserted within a frame, thereby necessitating the use a seal. Further, such a coupling technique permits the panel to be constructed of a wide variety of materials, including plastics, glass, and the like.

Referring now to Fig. 1, one embodiment of a sneeze guard 10 will be described. Sneeze guard 10 comprises of a pair of stands 12 and 14. Stands 12 and 14 may be constructed of identical components, with each comprising a post 16 that is coupled to a base 18. Extending from bases 18 are extensions 20 and 22 that may be adjusted to enhance the stability of bases 18. Although shown with bases 18, it will be appreciated that a variety of other bases may be employed to support posts 16 depending on the particular application. Indeed, in some cases post 16 may be directly coupled to a mounting surface so that bases 18 are not needed.

Disposed about each post 16 is a bracket assembly 24. Each bracket assembly 24 comprises a housing 26 that is received about post 16, and an arm 28 that is pivotally coupled to housing 26. Coupled to arms 28 is a sneeze guard panel 30.

Bracket assembly 24 is configured so that it may be moved and secured anywhere along post 16. In this way, the vertical position of panel 30 may be adjusted simply by relocating bracket assemblies 24 along post 16. Conveniently, each bracket assembly includes a screw 32 that may be rotated to securely couple housing 26 to post 16 when at the desired location.

Bracket assembly 24 also allows the angular orientation of sneeze guard panel 30 to be adjusted by pivoting arms 28 relative to housing 26. Conveniently, a second screw 34 may be used to secure the position of arms 28 relative to housings 26 once the desired orientation of sneeze guard panel 30 has been obtained. As described hereinafter, the location of post 16 relative to bases 18 may also be adjusted to vary the depth of sneeze guard panel 30. Hence, sneeze guard 10 is constructed so that sneeze guard panel 30 may be moved vertically, horizontally, and rotationally to permit panel 30 to be positioned at a wide variety of locations.

Although sneeze guard panel 30 is shown to be generally rectangular in geometry, it will be appreciated that essentially any shape or size of sneeze guard panel

may be employed. Further, sneeze guard panels may be constructed of a wide variety of materials including plastics, glass, and the like.

Referring now to Figs. 2 and 3, construction of bracket assemblies 24 will be described in greater detail. Held within housing 26 are a pair of inserts 36 and 38 (it being appreciated that more or fewer than this number of inserts may be employed).

When screw 32 is loosened, inserts 36 and 38 release their grasp on post 16. Conversely, when screw 32 is tightened, inserts 36 and 38 constrict about post 16 to lock the position of bracket assembly 24 relative to post 16. By utilizing inserts 36 and 38, bracket assembly 24 is secured to post 16 in a non-marking manner. In this way, a variety of materials may be employed to construct post 16 without being marked when bracket assembly 24 is secured to post. For example, esthetically pleasing materials that may be used include brass, stainless steel, aluminum, acrylic, and the like. Post 16 may also be constructed of a base material over which a deposited material is provided, such as brass, chrome, and the like. Post 16 may also be painted with a variety of paint types.

As previously described, panel 30 is rotated relative to post 16 by loosening screw 34 and rotating arm 28. As described in greater detail hereinafter, arm 28 and housing 26 may be provided with a plurality of interlocking teeth to help secure the location of arm 28 relative to housing 26 after screw 34 has been tightened.

Arm 28 has a pair of ends 40 and 42 that are employed to couple panel 30 to arm 28. A cap 44 is insertable into each of ends 40 and 42, and a screw 46 (see Fig. 3) is employed to hold cap 44 within ends 40 and 42. In this way, panel 30 may be coupled to arm 28 by providing appropriate holes within panel 30 and inserting caps 44 through the holes and into ends 40 and 42. Screws 46 are then tightened to pull caps 44 against panel 30 to sandwich panel 30 between caps 44 and ends 40 and 42. In this way, panel 30 may be coupled to stands 20 without requiring the use of an extensive frame that is positioned around panel 30. Further, various seals and other equipment that are typically employed to couple a panel to a frame are not needed, therefore by simplifying the design and facilitating assembly and disassembly.

Referring now to Fig. 4, coupling of post 16 to base 18 will be described in greater detail. Base 18 includes a pair of threaded holes 48 and post 16 includes a threaded end 50. In this way, post 16 may be secured to base 18 by simply screwing post 16 into one of holes 48. Conveniently, a plug 52 may be screwed into the empty hole so that the hole will not serve as a trap for food or other particulate. Although shown with

only two holes, it will be appreciated that the number of holes may be varied depending on the desired location of post 16 on base 18. .

The underside of base 18 includes a plurality of slots 54 and 56 to permit the location of extensions 22 and 20, respectively, to be varied. Optionally, extensions 20 and 22 may be provided with detents to fit within grooves 58 of base 18 to properly orient extensions 20 and 22 within slots 56 and 54. Conveniently, base 18 may be coupled to a mounting surface 60 by the use of pegs 62 that are inserted into mounting surface 60 and extend into base 18 as shown. In this way, the position of base 18 relative to a mounting surface 60 may be fixed.

As shown in Fig. 5, end 50 of post 16 may be screwed into an alternative base 64. In turn, base 64 is securely mounted to a surface by screwing screws (not shown) into through holes 66. As shown in Fig. 6, an alternative base 68 may be configured so as to be flush with a mounting surface. Post 16 may then be screwed into base 68.

Further, it will be appreciated that a variety of bases may be employed to hold post 16. Such bases may be configured to be portable or be secured to a mounting surface. Hence, the particular configuration of the base may depend on the given application.

Referring now to Figs. 7-13, construction of insert 36 will be described in greater detail, it being appreciated that insert 38 is essentially identical to insert 36 and is simply inserted into an opposite end of housing 26. Insert 36 comprises a sleeve 70 having a top end to 72 and a bottom end 74. Formed in sleeve 70 is a horizontal slot 76 and a vertical slot 78. Sleeve 70 is constructed of a somewhat resilient material to permit vertical slot 78 to be closed when a force is provided to an outer surface 80 of sleeve 70. In this way, sleeve 70 may be constricted so that an inner surface 82 of sleeve 70 will be adjacent to the post to secure the bracket assembly to the post as previously described. Conveniently, inner surface 82 may be provided with a smooth morphology so that inner surface 82 will not scratch or mark the post when constricted about the post. Materials that may be used to construct insert 38 include plastics, rubbers, and the like.

As shown in Fig. 8, outer surface 80 may include a flat section 84 to permit a locking bar to be forced against flat section 84 to close slot 78, thereby constricting sleeve 70 about the post. Sleeve 70 further includes a tab 86 that has a hole 88. As described hereinafter, tab 86 is configured to sit within housing 26 and prevent rotation of the sleeve relative to housing 26. Hole 88 is conveniently employed to receive

a screw to couple sleeve 70 to housing 26. Top end 72 may also include a rim 90 to permit sleeve 70 to rest on housing 26.

Referring now to Figs. 14 and 15, construction of housing 26 will be described in greater detail. Housing 26 includes a cylindrical section 92 having a top end 94 and a bottom end 96. As previously described in connection with Fig. 2, insert 36 is insertable into top end 94 and insert 38 is insertable into bottom end 96. As shown in Fig. 17, housing 26 further includes a locking bar section 98 for receiving a locking bar 100 (see Figs. 18 and 19). When inserts 36 and 38 are placed within housing 26, flat sections 84 (see Fig. 8) are aligned with locking bar sections 98. To permit locking bar 100 to be forced against flat sections 84, a threaded hole 102 is formed in locking bar section 98 as best shown in Fig. 14. In this way, screw 32 (see Figs. 2 and 3) may be screwed into hole 102 to contact locking bar 100 as shown in Fig. 17. In this way, when screw 32 is tightened, locking bar 100 is moved toward the center of cylindrical section 92. In so doing, locking bar 100 is forced against flat sections 84 of inserts 36 and 38. Hence, as screw 32 is rotated, vertical slots 78 (see Figs. 9 and 12) are closed as inserts 36 and 38 are constricted about the post. Conversely, when screw 32 is loosened, the grip applied by inserts 36 and 38 is loosened to permit housing 26 to slide over the post. As best shown in Fig. 17, locking bar section 98 includes a threaded opening 104 to permit a screw to be inserted through hole 88 of sleeve 70 (see Fig. 9) to securely couple sleeve 70 to housing 26.

As also shown in Figs. 15A, 15B and 16, housing 26 includes a circular section 106 having a plurality of teeth 108. Circular section 106 further includes a threaded hole 110 that is adapted to receive screw 34 (see Figs. 2 and 3). In this way, screw 32 may be employed to couple arm 28 to housing 26.

As best shown in Figs. 21, 21A and 23, arm 28 also includes a circular section 112 having a plurality of teeth 114. Circular section 112 further includes a through hole 116 through which screw 32 may be inserted. Hence, arm 28 may be coupled to housing 26 simply by inserting screw 32 through hole 116 of arm 28 and into threaded hole 110 of circular section 106 of housing 26. Arm 28 may be rotated relative to housing 26 until teeth 114 of arm 28 mesh with teeth 108 of housing 26. Screw 32 may then be tightened to secure the coupling. Such a configuration is particularly advantageous in that arm 28 may be rotated 360° about through hole 116 to permit sneeze guard panel 30 to be positioned at a wide variety of orientations relative to post 16. As

the teeth mesh with each other, arm 28 is locked to housing 26 to prevent rotation between the two parts.

As best shown in Figs. 20 and 20A, ends 40 and 42 each include an opening 118 into which cap 44 (see Fig. 2) is received. Opening 118 includes a ledge 120 upon which the bottom of cap 44 may rest. Opening 118 further includes a flat section 122 that is configured to mate with a corresponding flat section on cap 44. In this way, cap 44 may be keyed relative to opening 118 to prevent relative rotation between cap 44 and end 42. Hence, when a screw (not shown) is inserted into the bottom of end 42 and into cap 44, the screw may be tightened without cap 44 rotating relative to end 42. As the screw is further tightened, cap 44 is pulled against panel 30 (see Fig. 1) to secure panel 30 to arm 28.

As previously described, sneeze guard 10 may be used in a variety of settings. For example, as shown in Fig. 24, sneeze guard 10 is coupled to base 64 (see Fig. 5) which in turn is mounted to a wall 124. Alternatively, as shown in Fig. 25, sneeze guard 10 may be coupled to a ceiling 126.

As best shown in Fig. 26, sneeze guard 10 may be modified to include a second bracket assembly 24'. In this way, a second sneeze guard panel 30' may be coupled to post 16. This scheme may be repeated to permit any number of sneeze guard panels to be aligned in a row.

Sneeze guard 10 may be provided with alternative panels. For example, as shown in Fig. 27, sneeze guard 10 may be modified to include a double sided panel 128.

As shown in Figs. 28-30, sneeze guard 10 may include multiple bracket assemblies 24 on the same post, with each sneeze guard panel 30 being located on the same side of the post. In Fig. 28, sneeze guard panels 30 are positioned horizontally and spaced apart from each other to form a pair of shelves. In Fig. 29, one of the sneeze guard panels is vertically oriented while the other is horizontally oriented to form a shelf and wall arrangement. In Fig. 30, both sneeze guard panels 30 are vertically oriented to create a wall. Further, it will be appreciated that additional bracket assemblies and sneeze guard panels may be coupled to a single post and located either on the same or opposite sides of the posts. Still further, the sneeze guard panels may be positioned at essentially any angular orientation to create a wide variety of configurations.

The invention has now been described in detail for purposes of clarity of understanding. However, it would be appreciated that certain changes and modifications may be practiced within the scope of the appended claims.

WHAT IS CLAIMED IS:

1 1. A sneeze guard comprising:
2 at least one post;
3 a bracket assembly coupled to the post such that the bracket assembly is
4 movable relative to the post, wherein the bracket assembly includes a locking mechanism
5 that is operable to lock the bracket assembly to the post at a certain location on the post;
6 and
7 a panel coupled to the bracket assembly.

1 2. A sneeze guard as in claim 1, wherein the bracket assembly further
2 comprises a housing that is receivable about the post and an arm pivotally coupled to the
3 housing, and wherein the panel is coupled to the arm.

1 3. A sneeze guard as in claim 2, wherein the locking mechanism
2 comprises an insert that is disposed within the housing, a locking bar positioned between
3 the housing and the insert, and an actuator to force the locking bar against the insert to
4 cause the insert to constrict about the post.

1 4. A sneeze guard as in claim 3, wherein the actuator comprises a
2 screw extending through a threaded opening in the housing so as to be in contact with the
3 locking bar.

1 5. A sneeze guard as in claim 3, wherein the post comprises an
2 elongate cylindrical body, wherein the housing includes a cylindrical section, and wherein
3 the insert comprises a tubular sleeve having an elongate slot such that when the locking
4 bar is forced against the sleeve, the slot begins to close to permit the sleeve to constrict
5 about the post.

1 6. A sneeze guard as in claim 2, wherein the housing includes a
2 plurality of teeth, wherein the arm includes a plurality of teeth to interlock with the
3 housing teeth, and further comprising a screw to pivotally couple the arm to the housing.

1 7. A sneeze guard as in claim 2, wherein the arm includes a coupling
2 mechanism which couples the panel to the arm.

1 18. A device as in claim 17, wherein the actuator comprises a screw
2 extending through a threaded opening in the housing so as to be in contact with the
3 locking bar.

1 19. A device as in claim 17, wherein the housing includes a cylindrical
2 section, and wherein the insert comprises a tubular sleeve having an elongate slot such
3 that when the locking bar is forced against the sleeve, the slot begins to close to permit
4 the sleeve to constrict about the post.

1 20. A device as in claim 17, further comprising an arm operably
2 coupled to the housing.

1 21. A method for protecting displayed food items, the method
2 comprising:
3 providing a sneeze guard comprising at least one post, a bracket assembly
4 coupled to the post such that the bracket assembly is movable relative to the post, wherein
5 the bracket assembly includes a locking mechanism that is operable to lock the bracket
6 assembly to the post at a certain location on the post, and a panel coupled to the bracket
7 assembly; and
8 positioning the sneeze guard such that the panel is positioned between
9 displayed food and a viewing location.

1 22. A method as in claim 21, further comprising operating the locking
2 mechanism to unlock the bracket assembly, and moving the bracket assembly along the
3 post to adjust the height of the panel relative to the food.

1 23. A method as in claim 21, wherein the bracket assembly further
2 comprises a housing that is receivable about the post and an arm pivotably coupled to the
3 housing, and wherein the panel is coupled to the arm; and further comprising rotating the
4 arm relative to the housing to adjust the angle of the panel relative to the post.

1 24. A method as in claim 23, wherein the locking mechanism
2 comprises an insert that is disposed within the housing, a locking bar positioned between
3 the housing and the insert, and an actuator to force the locking bar against the insert to

- 4 cause the insert to constrict about the post, and further comprising operating the actuator
5 to constrict the insert about the post in a non-marking manner.

SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION AND USE

ABSTRACT OF THE DISCLOSURE

A sneeze guard includes at least one post and a bracket assembly that is coupled to the post. The bracket assembly is configured to be moveable relative to the post and includes a locking mechanism that is operable to lock the bracket assembly to the post at a certain location on the post. Further, a panel is coupled to the bracket assembly.

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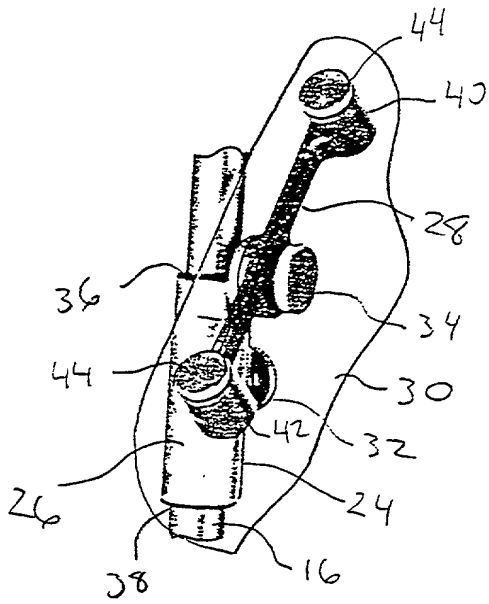


FIG. 2

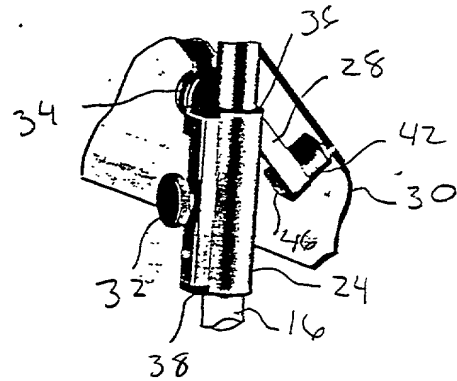


FIG. 3

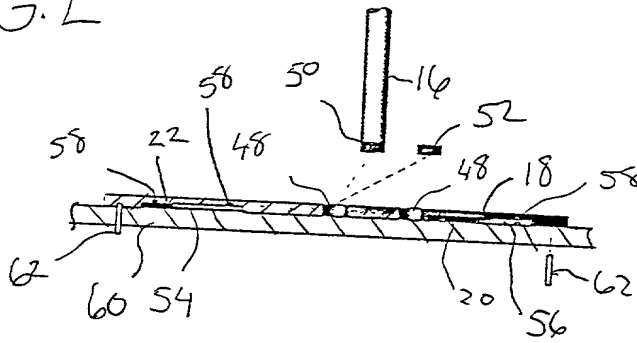


FIG. 4

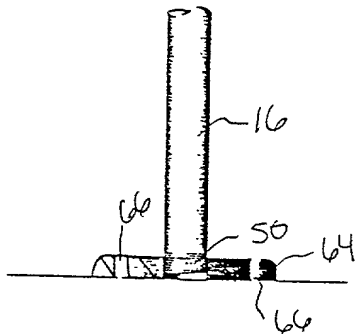


FIG. 5

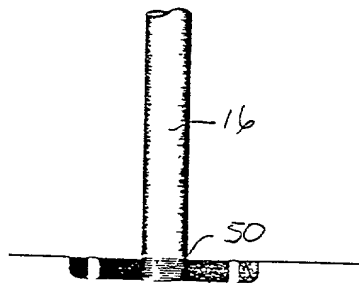


FIG. 6

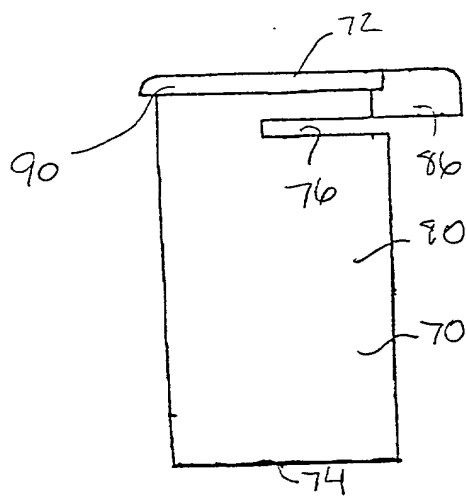


FIG. 7

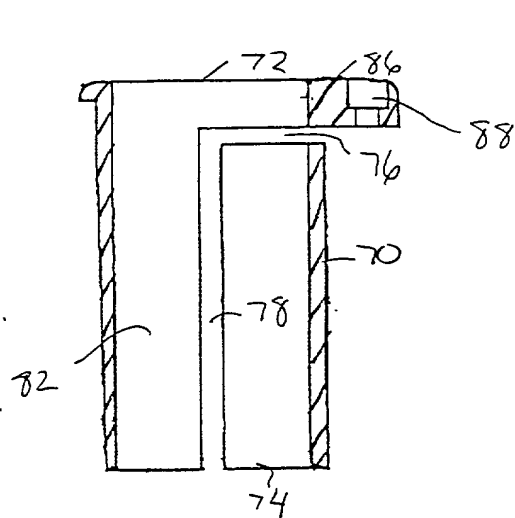


FIG. 9

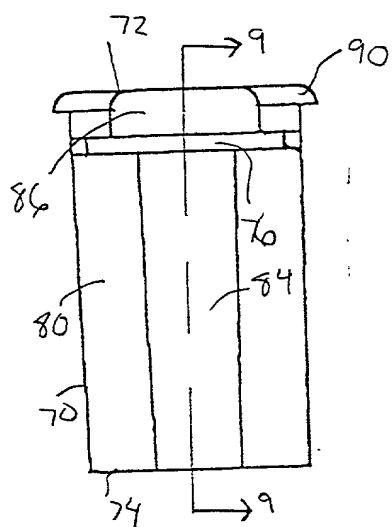


FIG. 8

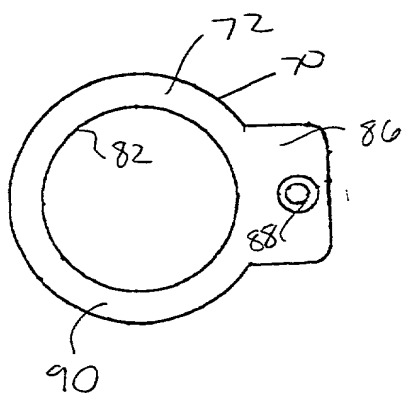


FIG. 10

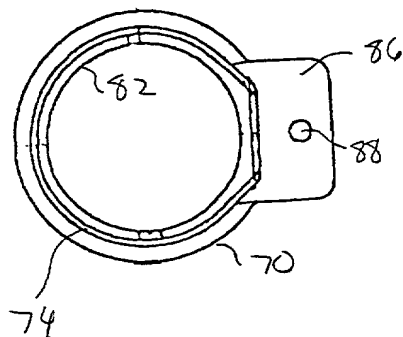


FIG. 11

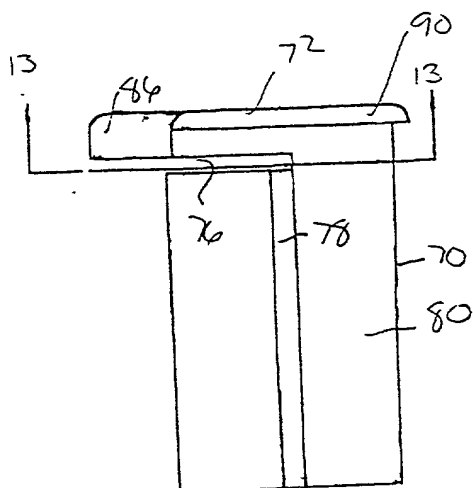


FIG. 12

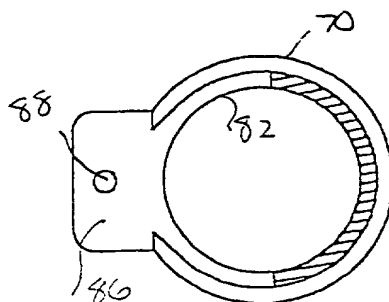


FIG. 13

FIG. 20

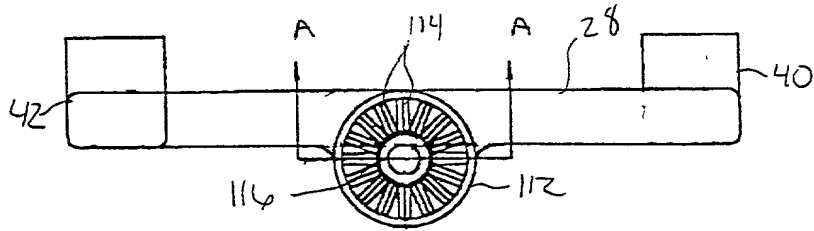
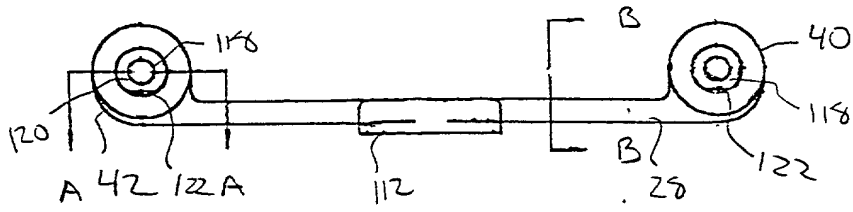


FIG. 21

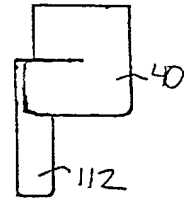


FIG. 22

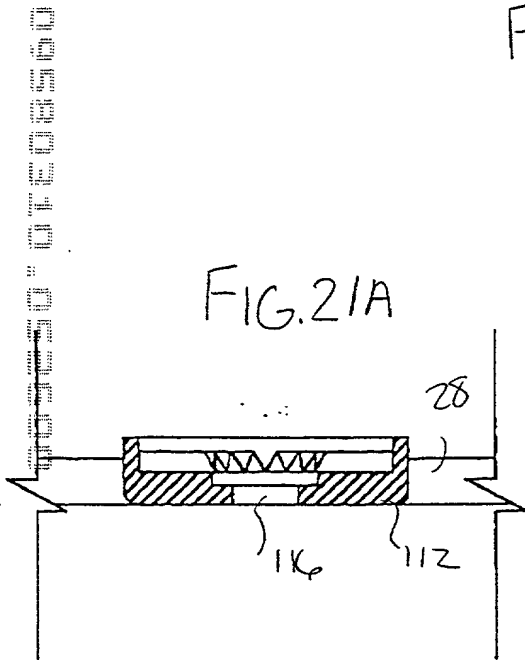


FIG. 21A

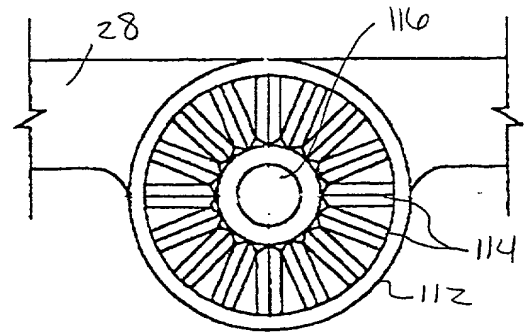


FIG. 23

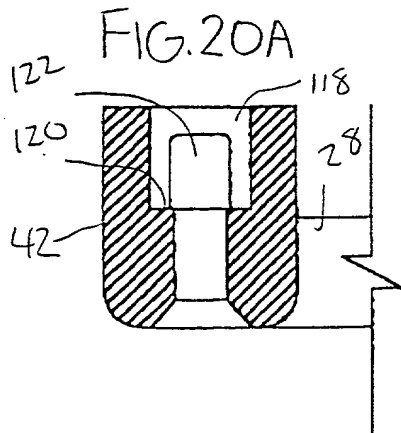


FIG. 20A

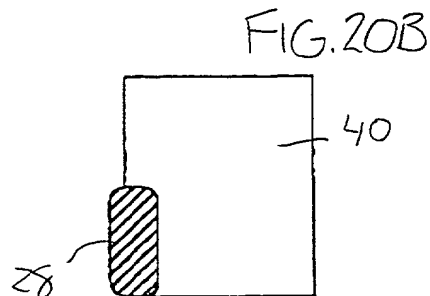


FIG. 20B

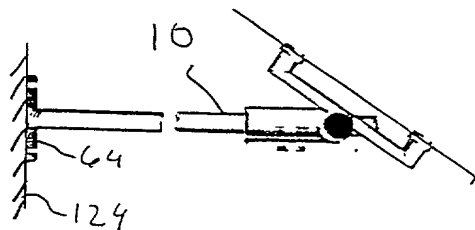


FIG. 24

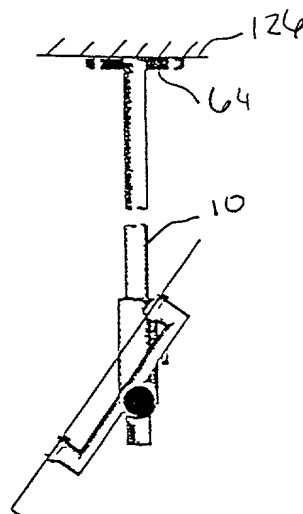


FIG. 25

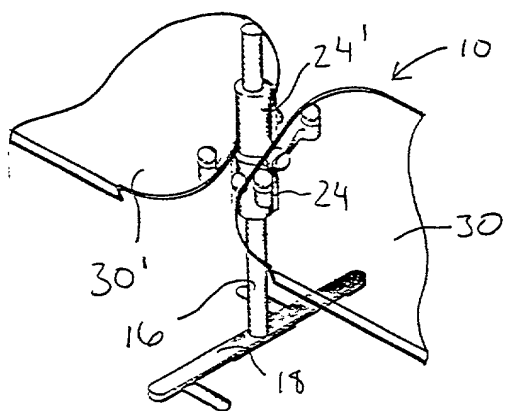


FIG. 26

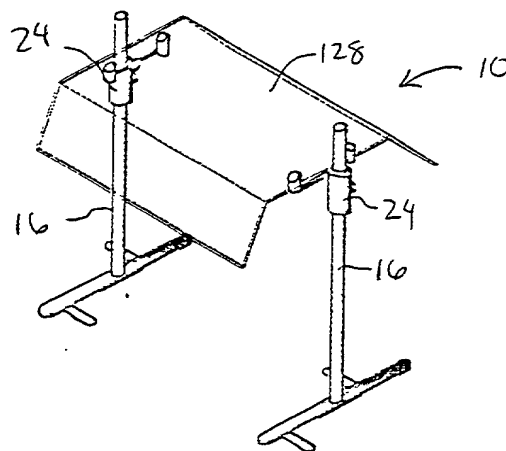


FIG. 27

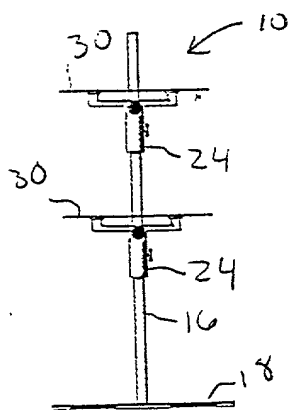


FIG. 2.8

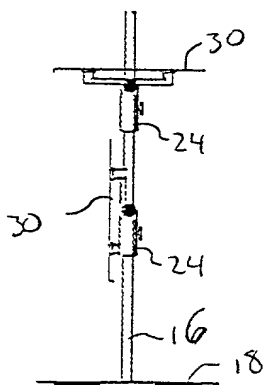


FIG. 29

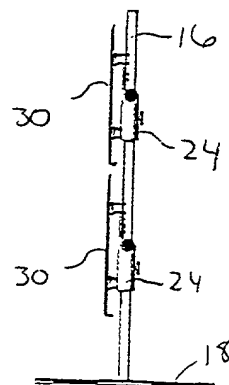


FIG. 30

DECLARATION

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION AND USE** the specification of which X is attached hereto or was filed on as Application No. and was amended on (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

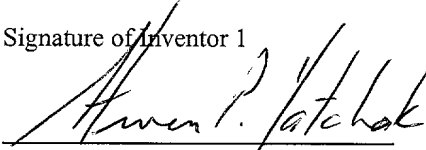
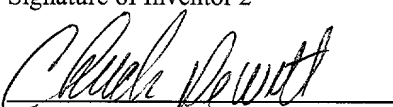
Application No.	Filing Date

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status

Full Name of Inventor 1:	Last Name: YATCHAK	First Name: STEVEN	Middle Name or Initial:	
Residence & Citizenship:	City: Wakefield	State/Foreign Country: Michigan	Country of Citizenship: United States	
Post Office Address:	Post Office Address: 511 Zorich Road	City: Wakefield	State/Country: Michigan	Postal Code: 49968
Full Name of Inventor 2:	Last Name: DEWITT	First Name: CHUCK	Middle Name or Initial:	
Residence & Citizenship:	City: Conifer	State/Foreign Country: Colorado	Country of Citizenship: United States	
Post Office Address:	Post Office Address: 13151 Callae Drive	City: Conifer	State/Country: Colorado	Postal Code: 80433

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

<p>Signature of Inventor 1</p>  <p>Steven Yatchak</p> <p>Date 5/23/00</p>	<p>Signature of Inventor 2</p>  <p>Chuck DeWitt</p> <p>Date 5/1/00</p>
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POWER OF ATTORNEY BY ASSIGNEE

Brass Smith Inc. is the Assignee of the invention entitled: **SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION AND USE**, the specification of which X is attached hereto or _____ was filed on _____ as Application Serial No. _____.

Assignee hereby appoints the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Lesley S. Craig, Reg. No. 26,578
Darin J. Gibby, Reg. No. 38,464
Chad S. Hilyard, Reg. No. 40,647
Roger T. Barrett, Reg. No. 41,599
William F. Vobach, Reg. No. 39,411
Scott L. Ausenhus, Reg. No. 42,271
Thomas D. Franklin, Reg. No. 43,616
Ronald C. Gorsché, Reg. No. P45,505
Patrick M. Boucher, Reg. No. 44,037

Send Correspondence to:

Darin J. Gibby
TOWNSEND and TOWNSEND and CREW
LLP
Two Embarcadero Center, 8th Floor
San Francisco, CA 94111-3834

Direct Telephone Calls to:
(Name, reg. no., tele. no.)

Darin J. Gibby
Reg. No.: 38,464
303/571-4000

BRASS SMITH INC.

Date: 5/1/00

By: 
(Signature)

Name: Chuck DeWitt
Title: President

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

Applicant: Steven Yatchak and Chuck Dewitt

Application No.: _____ Filed: Herewith

For: SNEEZE GUARDS AND METHODS FOR THEIR CONSTRUCTION AND USE

Brass Smith Inc., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is assignee of the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From : _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date:

5/1/00

Name:

Chuck DeWitt

Title:

President

Signature:

Chuck DeWitt